

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 2101 Blewett

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	3.16	03/26/2015 03/26/2015	Maksim Khashchuk

LM Start		Rating **	A	Issue No.	2		
LM End		Issue Type +	Ma	Location *	N/A		
Category	Earthen Levee			GPS Latitude/Longitude			
				Start		End	
Item	Operations & Maintenance Manuals				°		°
					°		°
DWR ID	DWR_RD2101_01_s _ 2013_2						
Action/Comments							
Inspector Comments: The LMA has the O&M Manual available electronically.							

No Photos

LM Start		Rating **	A	Issue No.	4	
LM End		Issue Type +	Ma	Location *	N/A	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Emergency Supplies & Equipment				°	°
					°	°
DWR ID	DWR_RD2101_01_s _ 2013_4					
Action/Comments						
Inspector Comments: LMA has emergency supplies on site at the warehouse.						

No Photos

LM Start		Rating **	A	Issue No.	5	
LM End		Issue Type +	Ma	Location *	N/A	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Flood Preparedness & Training				°	°
					°	°
DWR ID	DWR_RD2101_01_s _ 2013_5					
Action/Comments						
Inspector Comments: LMA is current on flood fight training.						

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Unit No. 01 San Joaquin River	Left	3.16	03/26/2015 03/26/2015	Maksim Khashchuk

LM Start	0.04	Rating **	M	Issue No.	12
LM End	0.04	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.657648 °	37.657648 °
				-121.253812 °	-121.253812 °
DWR ID	DWR_RD2101_01_s_2012_12				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 1 of 1 : SP_2015_RD2101_326_12_20150317_00005.jpg



View of rodent holes on waterward slope, facing upstream.

LM Start	0.08	Rating **	M	Issue No.	16
LM End	0.08	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.657811 °	37.657811 °
				-121.253269 °	-121.253269 °
DWR ID	DWR_RD2101_01_s_2013_16				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comments: Continue rodent extermination and backfilling the rodent burrows.					

Photo 1 of 1 : SP_2015_RD2101_326_16_20150317_00007.jpg



View of rodent burrows on the landside levee slope.

LM Start	0.17	Rating **	C	Issue No.	19
LM End	0.17	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.656827 °	37.656827 °
				-121.252150 °	-121.252150 °
DWR ID	DWR_RD2101_01_s_2012_19				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	3.16	03/26/2015 03/26/2015	Maksim Khashchuk

LM Start	0.70	Rating **	M	Issue No.	26
LM End	0.70	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.659907 °	37.659907 °
				-121.244219 °	-121.244219 °
DWR ID	DWR_RD2101_01_s_2013_26				
Action/Comments					
Exterminate rodents and backfill and compact or grout burrows.					

Photo 1 of 1 : SP_2015_RD2101_326_26_20150317_00012.jpg



View of the rodent burrows on the waterside levee slope.

LM Start	0.75	Rating **	M	Issue No.	11
LM End	0.75	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.659705 °	37.659705 °
				-121.243306 °	-121.243306 °
DWR ID	DWR_RD2101_01_f_2012_11				
Action/Comments					
Trim trees to at least five feet above ground level.					
Inspector Comments: Trim tree to allow access and visibility.					

Photo 1 of 1 : SP_2015_RD2101_326_11_20150317_00004.jpg



View of tree branches obstructing waterside slope.

LM Start	0.87	Rating **	M	Issue No.	3
LM End	0.87	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.658663 °	37.658663 °
				-121.241750 °	-121.241750 °
DWR ID	DWR_RD2101_01_s_2012_3				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 1 of 1 : SP_2015_RD2101_326_3_20150317_00002.jpg



11/02/2011 Active rodent burrow.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	3.16	03/26/2015 03/26/2015	Maksim Khashchuk

LM Start	1.02	Rating **	N	Issue No.	33
LM End	1.02	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.656745 °	37.656745 °
				-121.241104 °	-121.241104 °
DWR ID	DWR_RD2101_01_f_2014_33				
Action/Comments					
Tree stumps.					

Photo 1 of 1 : SP_2015_RD2101_326_33_20150317_00018.jpg



View of the tree stump at the waterside levee toe.

LM Start	1.59	Rating **	A/W	Issue No.	13
LM End	1.59	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.651555 °	37.651555 °
				-121.234319 °	-121.234319 °
DWR ID	DWR_RD2101_01_s_2012_13				
Action/Comments					
Pipe Inspector Comments: Pipe penetrates through levee. Closure valve on water side slope.					

Photo 1 of 1 : SP_2015_RD2101_326_13_20150317_00006.jpg



Photo of pump in background and CMP riser with valve in foreground.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	3.16	03/26/2015 03/26/2015	Maksim Khashchuk

LM Start	1.90	Rating **	U	Issue No.	1
LM End	1.90	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.650259 °	37.650259 °
				-121.228961 °	-121.228961 °
DWR ID	DWR_RD2101_01_s _ 2015_1				
Action/Comments					
Inspector Comments: 07/17/2014: No significant change observed. 09/20/2013: Site has been visited. There are signs of further erosion development along the levee slope and toe. 07/18/2012: The erosion has further developed toward levee crown. Vegetation has been removed. 08/18/2011: The erosion progressed significantly during the past flood season. The levee toe along the erosion site was washed away, and the erosion has cut the levee structure up to the point about 1/3 of the levee slope. The scarp height is approximately 17 feet. Very dense vegetation and trees are visible. 10/19/2010: No significant change observed on site. Remaining levee berm topsoil is of silty sand mixture. The erosion is near the downstream transition. An eddy has formed, and has scoured away a 100-foot section of the bank, possibly encroaching into the levee prism. Vegetation on site includes willows, oak, and cotton wood located from the bench to the toe. On the landside are rows of corn crop. 08/05/2010: Recommended for Repair, per CLRO. 2009: Site recommended as annual assessment and monitoring if critical erosion site, per CLRO CES Evaluation 2008 Report; an eddy has formed, eroding bank and intruding into the levee prism; Site # is the same as RM76.3, LM1.89; previously rated "U". 08/30/2007: Recommended for short list of immediate repair sites; silty sand levee material. [2014 Site ID:RD2101U01RM73.92]					

Photo 1 of 1 : SP_2015_RD2101_326_1_20150317_00001.jpg



Upstream view of the erosion.

LM Start	2.36	Rating **	M	Issue No.	30
LM End	2.36	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.645785 °	37.645785 °
				-121.226337 °	-121.226337 °
DWR ID	DWR_RD2101_01_s _ 2012_30				
Action/Comments					
Exterminate rodents and backfill and compact or grout burrows.					

Photo 1 of 1 : SP_2015_RD2101_326_30_20150317_00017.jpg



View of levee material removed by rodent activity on landside slope, facing upstream. 05/02/2012

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	3.16	03/26/2015 03/26/2015	Maksim Khashchuk

LM Start	2.83	Rating **	U	Issue No.	27
LM End	2.83	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.640425 °	37.640425 °
				-121.230139 °	-121.230139 °
DWR ID	DWR_RD2101_01_s _ 2012_27				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comments: Burrows on both sides of levee. Backfill the burrows to restore the levee to original condition.					

Photo 1 of 1 : SP_2015_RD2101_326_27_20150330_00026.jpg



View of multiple rodent holes on the levee slope.

LM Start	2.85	Rating **	A/W	Issue No.	28
LM End	2.85	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.640134 °	37.640134 °
				-121.230019 °	-121.230019 °
DWR ID	DWR_RD2101_01_s _ 2012_28				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comments: Rodent holes were backfilled. Continue to monitor the area and exterminate the rodents.					

Photo 1 of 1 : SP_2015_RD2101_326_28_20150317_00014.jpg



View of numerous rodent holes with bait stations present.

LM Start	2.87	Rating **	M	Issue No.	29
LM End	2.87	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.639852 °	37.639852 °
				-121.229980 °	-121.229980 °
DWR ID	DWR_RD2101_01_s _ 2012_29				
Action/Comments					
Schedule repair of erosion site prior to the next inspection.					

Photo 1 of 2 : SP_2015_RD2101_326_29_20150317_00015.jpg

View of repaired site, but it appears that erosion is still occurring.
09/25/2012

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	3.16	03/26/2015 03/26/2015	Maksim Khashchuk

LM Start	2.87	Rating **	M	Issue No.	29 (cont)	
LM End	2.87	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Erosion / Bank Caving			37.639852 °	37.639852 °	
				-121.229980 °	-121.229980 °	
DWR ID	DWR_RD2101_01_s _ 2012_29					
Action/Comments						
Schedule repair of erosion site prior to the next inspection.						

Photo 2 of 2 : SP_2015_RD2101_326_29_20150317_00016.jpg



Levee slope is being eroded at this location. Repair needed to preserve access road.

LM Start	2.98	Rating **	M	Issue No.	17
LM End	2.98	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.638760 °	37.638760 °
				-121.231341 °	-121.231341 °
DWR ID	DWR_RD2101_01_s _ 2012_17				
Action/Comments					
Exterminate rodents and backfill and compact or grout burrows. Inspector Comments: Active burrows with rodents present.					

Photo 1 of 1 : SP_2015_RD2101_326_17_20150317_00008.jpg



Numerous burrows present, some already caving in, others are active.

LM Start	3.07	Rating **	C	Issue No.	18
LM End	3.07	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.637943 °	37.637943 °
				-121.232620 °	-121.232620 °
DWR ID	DWR_RD2101_01_s _ 2012_18				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comments: Large burrow in crown with no rodents present at time of inspection.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River (Spur Levee)	Right	0.30	03/26/2015 03/26/2015	Maksim Khashchuk

LM Start	0.10	Rating **	M	Issue No.	1
LM End	0.10	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.661185 °	37.661185 °
				-121.243088 °	-121.243088 °
DWR ID	DWR_RD2101_02_f_2014_1				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

Photo 1 of 1 : SP_2015_RD2101_327_1_20150330_00003.jpg



View of the vegetation on the waterside levee slope.

LM Start	0.23	Rating **	M	Issue No.	2
LM End	0.23	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.662968 °	37.662968 °
				-121.242674 °	-121.242674 °
DWR ID	DWR_RD2101_02_f_2013_2				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comments: Backfill and compact the rodent holes to restore the levee to original condition.					

Photo 1 of 1 : SP_2015_RD2101_327_2_20150330_00004.jpg



View of the rodent burrow on the levee crown.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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